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Environmental Protection Agency
Office of the Administrator 1101A
Office of Research and Development 8101R
✓ Office of Air and Radiation 6101A

Regarding the proposed reductions of Carbon Dioxide emissions from Coal Fired Power plants, would Oxygen enhanced combustion be economical by reducing the quantity of Coal required to provide the combustion temperatures necessary to generate steam ???

When atmospheric air is the source of Oxygen for the Coal combustion, it includes the eighty percent contaminating Nitrogen which must also be heated up the the higher temperature then dumped to the atmosphere and carrying a lot of unusable energy with it.

Concentrated Oxygen could come from commercial "concentrators" or Oxygen generated from low load (off peak) Nuclear or Hydroelectric units.

The EPA and power generators need to put a calculation to this. Reductions in NOX (Nitrous Oxide) should also be beneficial. The Hydrogen generated by the electrolysis of water could be available for use in the same combustion process or sold to chemical companies for their use in their manufacturing processes.

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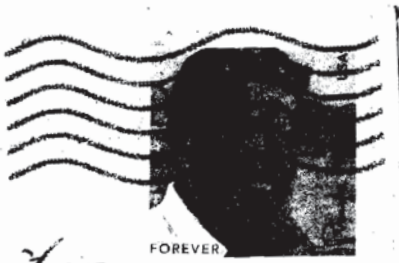

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